INTERNATIONAL SEARCH REPORT

PCT/up 03/01354

A. CLASSIF IPC 7	GO1B5/012 G01B7/012							
According to International Patent Classification (IPC) or to both national classification and IPC								
B. FIELDS S								
	cumentation searched (classification system followed by classification	symbols)						
IPC 7 G01B B23Q								
Documentati	on searched other than minimum documentation to the extent that suc	th documents are included in the fields sea	arched					
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)								
	ternal, WPI Data, PAJ, INSPEC, COMPEN							
C. DOCUMENTS CONSIDERED TO BE RELEVANT								
Category °	Citation of document, with indication, where appropriate, of the relevance	ant passages	Retevant to claim No.					
x	US 5 918 378 A (SULLIVAN JONATHAN AL) 6 July 1999 (1999-07-06) column 5, line 37 -column 6, line column 8, line 30 - line 57		1,5-8, 13,16,17					
	figures 2,3,6,11,12		2-4,					
A			9-12,14, 15,18,19					
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A	US 5 028 901 A (ENDERLE ECKHARD 2 July 1991 (1991-07-02) column 3, line 42 -column 5, line figures 1-4	•	1					
Further documents are listed in the continuation of box C. Patent family members are listed in annex.								
Special categories of cited documents:			the application out					
considered to be of particular relevance		cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to						
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-						
other means other means P' document published prior to the international filing date but ments, such combination being of in the art.			us to a person skilled					
	han the priority date claimed actual completion of the international search	Date of mailing of the international se						
	21 July 2003	30/07/2003						
Name and	mailing address of the ISA	Authorized officer						
	European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016	Grand, J-Y						





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